

# POTOMAC VALLEY RADIO CLUB NEWSLETTER - MARCH 1999

## PVRC CALENDAR

Week1	Wed	BWI Regional weekly breakfast. Wednesdays 7:30 am, Basil's Deli, Elkridge Landing Rd near BWI.
Mar 1	Mon	South MD at Wayne Rogers, N1WR, Lusby, MD, 7:30 pm
Mar 4	Thu	PVRC/NC, Ryan's Family Steakhouse at Crossroads, Cary at 6pm
Mar 6/7		ARRL SSB DX Contest. 5 Mil award.
Mar 8	Mon	Central meeting, Church of the nativity, Rte 5, Temple Hills, MD
Mar 16	Tue	Northwest meeting, Tully's Grill, 1080 W. Patrick St, Frederick, MD at 7:30 pm
Mar 16	Tue	Normal Tidewater Colony meeting with VA-DXCC. See reference page.
Mar 26	Fri	SWVA Chapter Meeting, Steak & Ale Restr, Rt419, Roanoke. Dinner 6:00pm
Mar 27/28		CQ SSB WPX Contest. 5 Mil award
Apr 1	Thu	Normal PVRC/NC night at Ryan's Steakhouse at Crossroads, Cary at 6pm
Apr 12	Mon	Central meeting in Virginia

EDITORIAL: We plan to continue to enjoy the economics of bulk mail though we may suffer from slow delivery. The economics is important and especially so in May when the jumbo issue would cost 55 cents each by first class mail instead of 18.3 cents. I believe we can compensate somewhat for the slow delivery by expanding the above calendar to give meeting and activity dates for both the current and following month. Therefore, regional chair persons are requested to include the date, time, and place of thier next TWO monthly meetings in their minutes. Or, at least, email your meeting schedules to me so that they may be put in the calendar. The Newsletter is always availabe at [www.pvrc.org](http://www.pvrc.org) and may be received by direct email by sending a request via email to the editor, K3DI.

DONATIONS REPORT by Dave Baugher, WR3L, Treas

The club would like to thank W4CE, K4BAM, KK4WQ, W3DAD, W4ZYT, N3OC, N3RC, N4RV, KM4YY, WR3Z and W3XY for the donation to PVRC in February.

CENTRAL GENERAL MEETING MINUTES, 2/8/99, by Rich Boyd, KE3Q, Secretary.

The regular central/general meeting of PVRC was held at the Patrick Henry Library, route 123, Vienna, Virginia Monday, Feb. 8, 1999 from 7:30-9:00 PM. Present, in order of sign-in: K3MM, N3RC, WR3L, N3OC, W4XP, KA3QPG, W3GNQ, WI2T, K3OSX, N4ZH, K3ZO, W3ZZ, N3NT, N4RV, W4RW, AA4KD, W3DQ, and KE3Q. Beforehand, about half of those were also at the nearby Outback Steakhouse for dinner.

With K3MM presiding, we went around giving name and callsign. Then we went around again to give each person a chance to talk about recent operating, etc. By about 8:30 we began showing a presentation from last

year's Dayton Contest Forum on videotape...on the 6Y4A station (which used the callsign 6Y2A in last fall's CQWW), an extremely competitive multi-multi contest operation that used almost entirely short verticals at a beach location. The meeting adjourned promptly at 9 PM.

SOUTHERN MD REGIONAL MEETING MINUTES (Feb 1, 1999) by Barry Shapiro, WR3Z

Meeting was held at the home of Wayne Rogers, N1WR. Attendees were: Barry, WR3Z; Wayne, N1WR; Mark, KD4D; and Chuck, N3WZR.

After a short picture show by N1WR of Hurricane Hugo damage from KP2, we discussed recent and upcoming contest activity.

N1WR reported activity in the CQWW 160M CW contest, with 218 Q's for 19K points. Wayne will be operating both ARRL DX contests, single op in the CW contest, and multi-single for SSB (with N3WZR and N3AFT).

KD4D reported no recent activity, but will be operating at W3LPL's for both ARRL contests.

WR3Z operated part-time with N3OC in the CQWW 160M CW contest from Ocean City. Totals there were 675 Q's for 178K points. Conditions appeared to be better during the first half of the contest, which made for slow pickings the latter half. Barry plans to operate ARRL CW from WR3L's and ARRL SSB from W3GNQ's in M2 activity.

After viewing the VP8SSI Dxpedition videotape, the group had an extensive discussion on ways to generate more contesting interest in our region. Several hams in the area that have done contests in the past will be initially targeted. In addition, we will be looking into the possibility of running a small effort (2A) in this year's Field Day, with the goal of introducing to hams beforehand various contesting operating techniques and contesting resources (such as CT). Hams from the local clubs (Calvert and St. Mary's) will be approached over the next 2 months. We are also considering additional meeting scenarios, such as Saturday breakfast meetings.

The next regular meeting is scheduled for Monday March 1st at N1WR's home.

PVRC/NC FEBRUARY MINUTES by Jim Price, N3QYE, with note taking help from N4CW.

The meeting was held at Ryans Family Steakhouse, Cary Crossroads, Cary, NC from 6-7:30pm on February 4th.

Attendees. Jim K4MA (chairman), Alan K4PB, Jim K4QPL, Tom N4TL, Will AA4NC, Jim N3QYE, Bert N4CW, Jeff NX9T, George WX4DX, Bob K4HA, Will WJ9B, Joe NA3T (guest), Frank KE4GY, Shinomiya JR3RUE (guest)

Membership. This was the 2nd meeting for Will WJ9B and Frank KE4GY, and both were voted members by unanimous acclamation. Welcome Will and Frank! Chapter membership is now 30.

Club business and announcements. K4MA exhorted the members to participate in the upcoming contests. There was a question of whether the WPX/RTTY test is part of the PVRC 5 million award program. It is not.

Upcoming Contests.

NCJ Sprint CW 2/13  
CQ WW WPX RTTY 2/13  
PACC (Dutch) Contest 2/13  
ARRL DX CW 2/20  
CQ WW 160 SSB 2/26  
REF (French) SSB 2/27  
North Carolina QSO Party 2/27  
(not a contest, but hey, they need support)  
ARRL DX SSB 3/6

Member notes. K4HA hosted W2XL for the 160m CW contest. WX4DX plans to improve his 160m antennas. N3QYE participated in the January VHF Sweeps and NAQP from W4ATC.

AA4NC and K4MA used NAQP as practice for their multi-2 operation in ARRL DX CW at 8P9Z. For the moment they plan to use the call 8P9JA on 7-8 bands. Will pointed out there was a good article in CQ Contest that described the 8P9Z station.

KE4GY says taking his children to hockey and basketball practices keeps him busy. He has a wooded 1-acre lot in north Durham, with an A3 in a box in the garage. Several members offered to help him put wires up in his trees.

JR3RUE is visiting the US for 3 months and is operating HF mobile while here. He described his privileges at home and per his reciprocal operating permit. Most of the US stations he works from home are W6/W7. He passed out plans for the Hentenna (Japanese for 'Strange Antenna').

NA3T likes weak signal VHF and operated the January Sweeps from W4ATC with N3QYE and N3NPQ. Joe is also a software designer and has authored the site which generates azimuthal maps for hams at <http://www.wm7d.net/azproj.shtml>.

K4QPL suffered a lightning strike two weeks ago, affecting the rig/computer interface for the recent 160m contest. Jim had fun working as part of a team in the NAQP CW contest.

WJ9B has operated in the November Sweeps for years, but this was the first time in years he branched out for NAQP (CW); he fed his tower for operations on 160m. Will is a homebrewer and one of the test builders for the K2 kit (160m-10m). Will worked 160m and got some good multipliers, with 313 Qs in 10 hours. He has high hopes for ARRL DX CW.

Next Meeting. The next meeting will be 6pm Thursday, March 4th at Ryans.

NW REGIONAL MEETING MINUTES - February 16, 1999  
By Greg Altig, N5OKR ([\[email protected\]](#))

In attendance were members N5OKR, N3KTV, K3MQH, WI2T, W3ZZ, K3ZO, N4ZR, W3UJ, W3EKT, W3LPL, K4IQ, N4MM, K3SX, K3SW, N3HBX, K3DNE, W3YOZ, K3FT, AA3SC, and WX3B, and guests N3YDT, N3LDI, K8NY, K4ZDH, N3WJA, and K3RFI.

Business. N3WJA, Ed, was attending his second meeting and was voted in unanimously. Welcome aboard, Ed!

From the Introductions. In lieu of our usual roundtable introductions, we turned the floor over to our special guest, Riley Hollingsworth, K4ZDH, legal advisor for amateur enforcement within the FCC's Compliance and Information Bureau.

Riley, based out of the Gettysburg office, has seen a rapid rise in his popularity since jumping into the middle of a "pig farmer" fracas on 75 meters last month; a sure sign that there is life returning to the FCC's amateur enforcement activities.

During his talk, Riley recounted some great anecdotes of recent enforcement activities and provided updates of ongoing cases against such famous (or infamous) personalities as Schoenbaum, Baxter, and Richard Burton.

Other highlights from his talk include:

- Details of the Laurel monitoring office's renewed enthusiasm at getting back into amateur radio activities. All 14 of the FCC's monitoring stations are automated and controlled out of Laurel. Of note, that office is now available for organized tours.
- The quantum leap in monitoring capability that the Pentium processor has brought. Pre-Pentium line-of-bearing (LOB) speed was one per second. Since the Pentium was introduced to their equipment, their capability is now 1024 LOBs per second.
- The ineffectiveness of "spanking the dog 3 weeks after he's soiled the carpet". In light of this, he has found a provision in the enforcement rules that allow for an immediate reduction in privileges for operating violations. He told us of a case in which that morning (Tuesday), an amateur's license was temporarily reduced to remove his HF privileges. The amateur had been monitored conducting malicious interference just this past weekend.
- Over 50% of the complaints reviewed when he took this position related to malicious interference on the HF bands, and the vast majority of those dealt with a "core" of about 10 people, licensed and unlicensed. Of the remaining complaints, the next largest percentage involved VHF and repeater problems.
- Given the above percentage, combined with the international reach of the HF bands, he has chosen to focus initially on the HF problems. He reminded us that third-world countries with a less than favorable view of the United States have the same one vote in band allocation matters as we do. Many of those same countries would love to have private commercial access to some of our bands.

A general question and answer period followed Riley's talk. He will be speaking at two forums in Dayton this year, one on Friday and one on Sunday. Times and locations will be published. In the meantime, you are welcome to contact him directly via email at [\[email protected\]](#). Meeting adjourned.

OVER-THE-HILL LUNCH MINUTES  
by Ben Shaver, AA4XU

February 17, 1999. PVRC members met for the monthly Over-The-Hill Lunch at Tom Westons Restaurant in Annandale, VA. The group welcomed back long-time PVRC member Admiral Scott Red K0DQ, now retired from the Navy and living in the area. Scott is well known for his big contest scores when operating Lenny Chertok's W3GRF station in Temple Hills, MD. Scott will be guest operating the ARRL CW contest this weekend at Jim Ahlgren's W4RX on the mountain near Frederick, MD. The following were present: W6AXX Howard Leake, K6ETM George Sinclair, K3ZO Fred Laun, W3UJ Henry Herman, W3CP Jim Headrick, K0DQ Scott Redd, K7CMZ Mel Woods, AA4XU Ben Shaver.

PVRC/NE MEETING 2/20 by Dave Baugher, WR3L

The meeting held at home of WR3L on February 20, 1999. In attendance was WR3Z, AA3SC, WX3B, W6HZW, WR3L and newcomer N3SB. Meeting was held to discuss the DX contest strategies and give N3SB his first meeting.

NOTES by the editor

In a letter to the Newsletter from Tom Davis, KR4ZY/VU3TOM, of New Delhi he wrote, "Happiness is having an Indian Amateur Radio License." Tom attached a copy of his AMATEUR WIRELESS TELEGRAPH STATION LICENSE dated 5 February 1999. He will be restricted to 50 Watts DC input and an antenna that extends above the roof by no more than 10 feet. He has multiband (7, 14, 21, & 28 MHz) and G5RV antennas and a FT-990. "The goal is to use a PK-232-MBX for RTTY2.5 and SSB operations."

Eric, W3DQ, got an email from PVRCer Bob Blumberg, TZ6DX in Bamako, Mali which said "Hope to play in ARRL DX CW contest this weekend and get another dose that will last a while!" He didn't say anything about the phone weekend. He's about to take a whirlwind (work) trip through 5N, 3X, 6W, TU, and 9G, so Eric suspects Bob won't be active during the phone weekend.

Pete Smith, N4ZR, would like to make his station available to guest ops for contests that he does not operate which essentially means his station is available for 'phone contests. Also, he would like to operate with one guest as a multi-single and generate a lot of points for PVRC.  
[\[email protected\]](#)

At 0000 UTC 1st February 1999 500kHz ceased to be part of the international maritime distress and safety network and many stations closed down then. Some station will continue operating. For example, Spanish stations are said to close at the end of February with Swedish stations to remain on until 2001. Faeroe Is, Finland, Norway, and Italy are remaining on indefinitely. Reference:  
<http://www.users.zetnet.co.uk/rdixon/crs.htm>

The following are known DXpeditions from this area. Please let the editor know any additions or changes.

ARRL 'phone:

HK0/W4DC(?) by Woodbridge Wireless includes K5OF & AA3KX

VP2V M2 by W4NF, W4RM, W4CE, & W4DAV

8P9Z M/S by K3KG (share of score)

TI7/N4MO by N4MO

CQ WPX 'Phone

TI7/N4MO by N4MO

NCDXF/IARU BEACON NETWORK, edited by Dick Wilder, K3DI. Part 2 of 2.

Last month, we introduced the concept of using the subject propagation beacons on 14.10, 18.11, 21.15, 24.93, and 28.20 MHz as a means to watch for band openings. Of course, it is difficult for a operator, who already has a nice rate, to scan other bands in hope of finding a better opening. But, perhaps a spare receiver, computer, and software can do the band scanning for you. This month we will consider some of the software that is available to function as your second operator even though you're in a single operator category. The following text is from <http://www.ncdxf.org/beacon>.

Articles about the beacons have appeared in QST within the past few years and these articles are now available online at the IARU web site at <http://www.iaru.org/articles/>. These articles have a lot of interesting details about the beacon.

Helmut Zurneck, DL4FBI, has written an article that appears on pages 46-47 of the October 1997 issue of QST describing a QBASIC PC program which communicates with a TS-870 via a serial link. The program uses the serial link to set the receive frequency and to interrogate the S-meter. Both source code and executable software may be downloaded from <ftp://oak.oakland.edu/pub/hamradio/arrl/qst-binaries/dl4fbi.zip>. Helmut's e-mail address is [\[email protected\]](#).

Jamie Pye, ZL2NN, has developed a similar system under Windows that is described at [http://www.nzart.org.nz/nzart/ar\\_ww/iaru/bcomlog.html](http://www.nzart.org.nz/nzart/ar_ww/iaru/bcomlog.html). He hopes to automatically transfer his reception data to the internet soon. Jamie's software is not yet available for general use. Jamie's e-mail address is [\[email protected\]](#).

There are a number programs available for free over the internet that will help beacon listeners figure out which beacon is transmitting on which frequency at any given time. The programs listed below have all been reviewed by N6EK and found to be solid useful programs that work as advertised. Not only are they are great for people who can't easily copy morse code at twenty-two words per minute, but they help you figure out the callsign of very weak beacons that you hear and they mean that you no longer have to try to simultaneously look at both your clock and your printed beacon schedule.

BEACONCLOCK BY KW7KW. BeaconClock, written by Stan Huntting, KW7KW, can be found at <http://www.sni.net/kawin/>. This is a 32-bit program which runs only under Windows 95. I downloaded and tested version 2.01 which Stan says corrects bugs in the earlier versions and supports regional system differences. You can contact Stan at [\[email protected\]](#).

[Screen display shown here in paper edition]

One picks one of the five bands to monitor using radio buttons and BeaconClock shows the beacon that transmitted previously on that band, the beacon currently transmitting on that band and the next three beacons which will transmit on that band. For each beacon it shows the short-path and long-path beam headings from your QTH and the short-path distance in kilometers.

The callsigns of W6WX and KH6WO are grayed out on the WARC bands because these beacons are not transmitting on the WARC bands at this time. The information about which beacons should be grayed out is built into BeaconClock. Stan asks users to alert him about changes so he can update his program.

Clicking the "Clock" button brings up a separate window for setting the clock on your computer which is nicely designed for people who adjust their clocks by a small amount using a signal that occurs once a minute like the one from WWV. BeaconClock displays UTC in its window, even if your computer clock keeps local time.

Clicking the "QTH" button allows you to enter your own latitude and Longitude and specify the offset of your clock from UTC. It also allows you to check a box which keeps the BeaconClock window on top of all the other windows which can help to keep it from getting lost.

Clicking the "List" button produces a window with a list of all the beacons, their short and long path beam headings and their distance from you in kilometers. A button in this window allows you to print the list, however when I tried it, BeaconClock crashed. Stan assures me it doesn't crash on most people's systems. BeaconClock uses an ellipsoidal earth model and double-precision math to calculate great circle paths between station and beacon. The distance from station to beacon is rounded to the appropriate precision for each beacon based on the precision of the location data available for that beacon.

BEACON WIZARD BY KU5S. Beacon Wizard, written by Jim Tabor, KU5S, can be found at <http://www.wtrt.net/~ku5s/Comments.htm>. It is a 16-bit program which runs under both Windows 3.1 and Windows 95. The reviewer tried it under Windows 95. One picks one of the five bands to have displayed using radio buttons. The window shows the currently transmitting beacon on that band and the previous and next beacons for that band. For each beacon it shows the short-path and long-path beam headings from your QTH and the short-path distance in kilometers, and the sunrise and sunset times at the beacon. Beacon Wizard also shows your own sunrise and sunset times, your local time, UTC time and the current beacon's slot number and local time. Beacon Wizard makes excellent use of the "hints" that can be displayed when you allow the cursor to linger over an area of its window. Beacons which are not on the air yet are grayed out. The user can easily update the beacon database using a built-in editor.

BEACON by W2NN. Art Glazar, W2NN, has written what is considered to be the most full-featured of the DOS programs. His program, BEACON, allows you to set your own latitude and longitude and then tells you the short-path distance and the short- and long-path beam headings to each beacon. His program has one feature which may make some Windows users prefer to use it instead of the Windows-specific programs: The information for all eighteen beacons is on the screen at all times and the currently transmitting beacon is highlighted. This would be important, for example, if you needed the beam heading of a particular beacon well before that beacon was to transmit so you could rotate your antenna to point at it. Also, Art has tested the program running from a floppy disk. This program does not explicitly keep track of which beacons are not in operation on which bands, but suggests the convention of placing a question mark after the call of a beacon that is not on the air at all and an exclamation mark

after the call of a beacon that is transmitting on some but not all bands.  
You can request a copy of the program from Art by e-mail at  
[\[email protected\]](#).

BJBEACONS BY DC7BJ. Rainer Steinfuehr, DC7BJ, has written a DOS program called BJBEACON which shows which beacons are transmitting on each band. If you don't have a way of automatically keeping your clock accurate you will also appreciate BJBEACON's mechanism for making slight adjustments to the clock by typing "+" to increase the clock by one second and "-" to decrease it by one second. BJBEACON can be found at <http://www.snafu.de/~wumpus/index.html>. To obtain the program, click on "ham radio" and then on "public domain software" and then on "BJBEACON". Rainer's e-mail address is [\[email protected\]](#).

BW BY KQ6RH. Ray Jurgens, KQ6RH, has written the simplest DOS program of the bunch, called BW. You pick one of the bands when you start the program and it shows you a single line with the time and the callsign and country of the current beacon. The simplicity of the displayed information may be an advantage in certain situations. BW can be downloaded at <http://autoinfo.smartlink.net/kq6rh>. Ray's e-mail is [\[email protected\]](#).

S C O R E S by Bob Dannnals, W2GG

\* \* Changes/additions/deletions to W2GG via email or packet \* \*  
\* NEW EMAIL: [\[email protected\]](#) \*  
### = missing information

ARRL VHF SS RESULTS (#7 2/11/99)

CALL	BND	QSO	MULTS	TOTAL
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SINGLE OPERATOR

K1RZ	7	735	200	230,112
K3DNE	6	601	169	153,283
K2UOP	A	366	118	68,912
K3ZO	2	482	104	50,128
W3EKT	2	320	65	20,800
N4MM	3	250	62	17,360
K3IXD	4	190	36	8,244
N3II	2	187	31	5,797
NE3H	2	125	32	4,736
K4SO	1	102	21	2,142
K3OSX	2	70	20	1,400
K4HA	1	51	20	1,020
N3AM	1	68	14	952
N8II	1	59	14	826
W3JRY	2	42	12	540
W2GG	2	29	12	384
N4TL	1	9	5	45
W3FG	#	#	#	45

ROVER

N3IQ	A	1600	240	1,300,000
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Ops: ND3F and WD8ISK

MULTI-OP



K3SX	4	364	101	44,541
W4ATC	2	51	20	1,020

21 LOGS            TOTAL    1,912,287

RUMOR ROVER

K6LEW	A	###	###	600,000
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Last Year	Entries	Total
* UNLIMITED CATEGORY *		
Mt Airy VHF R C	56	2,810,913
* MEDIUM CATEGORY *		
Potomac Valley RC	21	1,784,971
Northeast Weak SG	49	1,588,997
Rochester VHF Grp	36	1,560,235

K3SX	W4XP	K3SX
W4ATC	N3NPQ	N3QYE NA3T KE4QIU
	KF4RDN	

CQ 160M CW RESULTS (#5 2/11/99)

CALL	QSO	ST	DX	SCORE
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SINGLE OP HIGH POWER

W3AO	925	57	52	344,331
W4MYA	967	56	37	260,121
K8OQL	743	56	31	186,702
K3SV	682	52	31	151,641
K4IQ	636	(85)		147,560
K4MA	643	50	22	115,704
K2UOP	558	52	23	104,025
N4RV	317	53	35	97,856
K3OSX	425	55	17	75,960
N4AF	408	49	19	72,896
K4PB	313	53	26	66,913
K4SO	310	41	19	51,000
N3AM	435	49	3	50,076
N4MM	221	50	12	37,324
W3GN	224	44	12	31,920
W4HJ	214	46	1	23,782
K2AV	128	35	13	17,712
N3RC	100	40	10	13,850
K4BAM	162	39	6	17,055
N4CW	130	32	1	9,075
K4VV	60	28	0	3,864

SINGLE OP LOW POWER

N8II	591	53	20	109,354
W3CP	215	(48)		24,864
N1WR	218	36	4	19,000
W3MR	151	36	11	18,236
N3GPU	159	(34)		12,636
NX9T	111	32	2	8,058
K4QPL	77	27	1	4,648

SINGLE OP QRP

WK3I	530	(70)	87,360
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## MULTI OPERATOR

NJ4F	882	55	40	237,690
N3OC	676	55	36	178,724
K3MM	308	46	31	78,078
W3HVQ	326	46	24	69,300
K4HA	552	56	28	60,018
N3NT	375	46	22	67,048
W2GG	336	52	19	61,557
WA4QDM	202	37	1	16,948

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 37 LOGS CW TOTAL 2,932,886  
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## OUT OF TOWN OPERATIONS

W5KL 250 (54) 31,374  
 Op W4YE  
 W1BB 1308 59 59 550,000  
 Ops PVRC: W4ZV K1HTV, YCCC: K1ZM  
 K2EK, FRC: K2WI WW2Y

## LAST YEAR (combined SSB &amp; CW)

Frankford R C 6,366,228  
 Slovenia Contest C 5,138,233  
 Contest C Finland 4,294,949  
 Potomac Valley R C 3,373,098  
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## Guest Operators:

W3AO KE3Q AT W3LPL  
 K8OQL from W9LT QTH

## Multiop operators:

Single op plus packet unless indicated below.

K4HA K4HA W2XL (non-PVRC)  
 N3OC N3OC WR3Z  
 NJ4F NJ4F K7SV K4ZW K1SE WA4JUK Daisy

## ARRL DX CW (#5 3/1/99)

CALL	BND	QSO	CTY	TOTAL
SINGLE OP HIGH POWER				
K3ZO		3326	399	3,981,222
K0DQ		3345	396	3,972,672
N4AF		3106	377	3,466,515
W4MR*		1717	302	1,555,602
W9LT		1647	310	1,525,200
N3AM		922	311	858,360
W3GN		923	281	778,089
K2UOP		1082	234	759,569
N8II	15	1771	106	563,178
W4YE		709	256	544,512
N4MM		524	238	374,136
W3EKT		550	213	348,000
K3SV		401	147	176,400
W4VC		271	124	100,812

W4HJ	230	129	89,010
K3SX	155	###	46,000

SINGLE OP LOW POWER

W3DAD	771	249	575,937	
K4BAM	717	247	530,556	
K7CMZ	662	234	461,214	
K1EFI	625	235	459,660	
WJ9B	617	223	412,773	
NX9T	352	182	192,192	
K4HA	353	168	177,912	
K4QPL	280	145	121,800	
KS4XG	266	150	119,700	
W3FG	226	143	96,954	
W3CP	15	281	63	53,109
K3HH	169	50	25,350	

SINGLE OP QRP

SINGLE OP ASSISTED

K3SA	1294	330	1,271,160
W3HVQ	1143	320	1,096,320
W3UJ	943	305	861,930
N4ZR	807	248	597,432
K4PB	659	280	553,560
K3KO	500	204	306,000
NY3M	393	229	269,991
K4VV	310	172	159,960
N3GPU	114	71	24,282

MULTI SINGLE

N4RV	2628	392	3,089,352
W4PRO	805	327	789,705

MULTI TWO

NJ4F	3879	456	5,306,472
WR3L	3081	423	3,907,251

MULTI - MULTI

W3LPL	7146	602	12,900,000
W4MYA	4916	496	6,800,800

DXPEDITIONS

8P9JA	5267	342	5,403,942
(multi single)			
KG4DZ	4276	304	3,899,712
(multi single)			
N4MO/TI7	1337	58	232,638
(SOLP, 15 m only)			
NP2S*	2211	208	1,379,664
(SOLP)			
V26O*	7667	345	7,935,345
(multi two)			
WP3R*	4852	332	4,832,592
(SOHP)			

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49 LOGS CW TOTAL 83,984,542

LAST YEAR'S RESULTS (SSB & CW)

Club	Logs	Score
FRC	173	243,591,930
YCCC	176	221,027,178
PVRC	121	97,101,300

OPERATORS:

8P9JA K4MA AA4NC  
KG4DZ W4ZYT W4SD  
N4RV K3OSX N4RA N4RV KT4W  
NJ4F NJ4F K4EU K4EC WA4JUK K4GMH  
K7SV K1SE Daisy  
NP2S K3DI  
V26O K3MM K3RA N5NJ  
W3LPL K1HTV AI3M ND3F N3OC W2GG K4ZW WB2FFY  
K3NA KD4D K1RA K3RV W3LPL K9PG  
W4MR N4CW  
W4MYA K4GAU K4GE W4DAA W4DR W4HZ  
WA4QDM WK4Y WU4G W4MYA  
W4PRO W4HIR WB4DNL AF4CD W4PRO  
WP3R KE3Q  
WR3L AA3SC N3NT WR3L WR3Z WX3B W6HZW

CQ 160M SSB (#1 3/1/99)

CALL	QSO	ST	DX	SCORE
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SINGLE OP HIGH POWER

K8OQL	643	53	14	100,098
K4IQ	503	56	13	81,489
NX9T	461	51	8	60,180
K4MA	336	42	7	36,456
K4HA	198	41	5	20,378
K4VV	77	27	2	4,814

SINGLE OP LOW POWER

W3EKT	194	36	4	17,400
N3GPU	643	33	1	11,424
NV3V	123	30	1	8,184
W3MR	125	27	2	8,120
W4YE	120	(36)		9,288
W3CP	81	(28)		5,040

SINGLE OP QRP

W3GCG	484	35	7	22,264
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MULTI OPERATOR

K3IXD	445	51	14	70,005
W2GG	307	47	10	40,185
KB3AUG	298	46	5	34,883
K3KO	97	32	2	7,208
W3HVQ	77	32	3	6,825

Stats in April issue. -editorPVRC REFERENCE PAGE. Please send corrections to the editor. 2/20/99 changes are underscored.

PVRC Officers			
President	K3MM	Tyler Stewart	
301-414-5444	<a href="#">[email protected]</a>		
Vice President	N3OC	Brian McGinness	301-652-6768
<a href="#">[email protected]</a>			
Secretary	KE3Q	Rich Boyd	
301-464-8014	<a href="#">[email protected]</a>		
Treasurer	WR3L	Dave Baugher	
410-DX1-WR3L	<a href="#">[email protected]</a>		
Historian	K3SA	Steve Affens	
301-774-0558	<a href="#">[email protected]</a>		
Membership Sec	W2GG	Bob Dannals	
410-472-2004	<a href="#">[email protected]</a>		

PVRC Charter Members:

W3GRF (SK), W4AAV (SK), W4KFC (SK), N0FFZ (SK), W4LUE, W7YS, VP2VI (W0DX), W3IKN, W4KFT.

PacketCluster Contest/DX System (MHz):

W3LPL	Glenwood MD	145.590	441.250
KE3Q	Bowie MD	145.570	445.375
N3RR	Rockville MD	145.510	441.325
N4OHE	Mt.Weather VA	145.710	440.925
K3MQH	S Mountain PA	145.630	
WR3L	Baltimore MD	145.610	440.950
N4SR	Woodbridge VA	145.630	*
K4FJ	Mt. Vernon VA	145.770	*
KE3QZ	Hollywood MD	145.690	*
K3SKE	Frederick MD	144.930	

This system is sponsored by the Potomac Valley DX Spotting Network except "\*" are independently funded by each SYSOP.

PVRC on Internet.

PVRC web site by K3SA:

<http://www.pvrc.org>

PVRC/NC web site by KS4XG

<http://www.pagesz.net/~pvrcnc>

PVRC reflector: (editor KS4XG)

Get latest scores & activities info here

To post: [\[email protected\]](#)

To join\* send email to:

[\[email protected\]](#)

Text: SUBSCRIBE PVRC

\*Members only. If your call is not within your URL, then send msg to [\[email protected\]](#)

PVRC dues and ARRL renewals: The annual dues are by donation - hopefully at least \$10. Club gets a cut from ARRL renewals sent via PVRC. Both dues and renewal checks should be made to PVRC and sent to Dave Baugher, WR3L, 615 Rockway Beach Av, Baltimore, MD 21221. Thank you.

Newsletter & Autocall column Editor: Dick Wilder, K3DI, 913 Shore Acres Rd, Arnold, MD 21012-1724. Voice 410-757-6706, FAX/modem 410-757-6720, Dxcluster packet, and [\[email protected\]](#) Deadlines are the 25th unless prior arrangements are made.

CENTRAL: The Central Meeting is always the second Monday (except June, July, and August) at 7:30 pm. The central meeting generally alternates between MD and VA locations. A pre-meeting dinner is usually held between 5:00 and 6:30 pm. Check via 147- repeater.

VA LOCATION: The Patrick Henry (Public) Library, Route 123, Vienna, VA. Pre-meeting dinner at Outback, Old Branch Ave.

MD LOCATION: Church of the Nativity (Episcopal), Route 5, Temple Hills, MD. Pre-meeting dinner at Topolino's.

NORTHWEST: Greg Altig 410-775-7313 [\[email protected\]](#). Meets at 7:30 pm on the third Tuesday every month at Tully's Grill, 1080 W. Patrick St, Frederick, MD. Same center as Shoppers Food Warehouse. Essentially includes WEST VIRGINIA area.

NORTH CAROLINA: Chair: Jim Stevens, K4MA, [\[email protected\]](#); Sec: Pete Soper, KS4XG, [\[email protected\]](#), reflector editor, hm: 919-362-4635, wk: 919-481-6874. Activities: Jim Stevens, K4MA?. POC is K4MA and KS4XG. Howie Hoyt, N4AF, [\[email protected\]](#) is PVRC reflector editor. PVRC/NC meets at 6:00 pm the first Thursday of every month at Ryan's Family Steakhouse at Crossroads in Cary. There is a table set and waiting for you.

TIDEWATER (VA) COLONY OF PVRC:

Don Lynch W4ZYT 757-486-0728 [\[email protected\]](#). Meetings are the 3rd or 4th Tuesday of every month in conjunction with the VA DXCC at C&M Cafeteria, Independence Blvd at the Giant Shopping Center. Take I-64 to 44/I-264 inter-change, go east on 44. Take Independence about 1.5 miles. C&M is on the left. Dinner at 1900 and meeting at 2000.

SOUTHWEST VA CHAPTER: Coordinator: John Mitchell, K4IQ, Catawba, VA 540-384-7377, [\[email protected\]](#). Monthly meetings alternate between Roanoke area locations

THE BWI REGIONAL/PVRC: Weekly breakfast Wed at 7:30 AM at Basil's Deli Port on Elkrdige Landing Rd 1/4 mile South of Winterson Road 410-850-4333. Director: Ike Lawton, W2EOS, 410-263-2830. Secretary: Howard Leake, W6AXX, 410-465-7008, [\[email protected\]](#).

OVER-THE-HILL BUNCH (Luncheon):

Rotating hosts announces meeting info. Ben Shaver, AA4XU, 703-534-4740; Andy Anderson, W3XE, 301-384-7771, [\[email protected\]](#), Holiday Inn, College Park MD; and Bill Leavitt, W3AZ, 301-292-5797, Ramada Inn, Oxon Hill

PENNSYLVANIA:

Steve Cutshall, K3TZV, [\[email protected\]](#), 717-763-0462.

RAPPAHANNOCK

Steve Bookout, NJ4F [\[email protected\]](#)

WOODBIDGE: Jack O'Mara W4NF, [\[email protected\]](#) 703-680-4106 and Cliff Deel W4CE, [\[email protected\]](#) 703-491-0841

CENTRAL VA: Bob Morris, W4MYA 804-457-9011 [\[email protected\]](#)

SOUTHERN MD: Chair: Barry Shapiro, WR3Z. (H) 301-862-2466 Usually meets at N1WR's. [\[email protected\]](#)

EASTERN-SHORE (DEL-MAR-VA):

Dallas Carter, W3PP 302-875-0550 [\[email protected\]](#)

WEST (Shenandoah, etc): Chair vacant

NORTHEAST: WR3L, see info above

EAST (Annapolis): KE3Q, see info above

OTHER MEETINGS based on prior year(s):

Jun.	W3LPL open house Sat before Field Day with joint FRC/PVRC meeting on alternate years. (1999, 2001, ...)
summer.	When joint FRC/PVRC is at FRC, they announce the date.
Jul.	PVRC/NC cook out
Jul.	Open house, W4MYA, Goochland,
Aug.	NCDXA/PVRC Fowlfest at W3YOZ
Aug.	VHF++ meeting/workshop at ND3F
Sep.	PVRC meeting at the FARfest Bowie
Sep.	Open house, WR3L, Baltimore
Dec.	Christmas dinner, DC area.

5 MILLION (CLUB COMPETITION) AWARD

Month and number of the full week end.

Jan 3	ARRL VHF Sweepstakes
Jan Last	CQWW 160m CW
Feb 3	ARRL DX CW
Feb Last	CQWW 160m SSB
Mar 1	ARRL DX SSB
Mar Last	CQWW WPX SSB
May Last	CQWW WPX CW
Oct Last	CQWW DX SSB
Nov 1	ARRL Sweepstakes CW
Nov 3	ARRL Sweepstakes SSB
Nov Last	CQWW DX CW
Dec 1	ARRL 160m Mixed
Dec 2	ARRL 10m Mixed

"Under no circumstances will anyone receive Award Points for more than one operation during a particular contest. If more than one Award Points score is generated to a single member, they will receive the single highest score of the group only."

Standings at <http://jctc.org/pvrc5m.htm>

Roster updates at:

<http://www.pvrc.org/pvrcmm98.htm>

A SHAREWARE COPY OF CT 6.26 with updated CTY and SEC files is available FREE from K3DI. Ideal legal training program to give to prospective tester.